

Title (en)
ION EXCHANGE REGENERATION AND NUCLIDE SPECIFIC SELECTIVE PROCESSES

Title (de)
IONENAUSTAUSCH-REGENERATION UND NUKLIDSPEZIFISCHE AUSWAHLVERFAHREN

Title (fr)
RÉGÉNÉRATION D'ÉCHANGE D'IONS ET PROCÉDÉS SÉLECTIFS POUR UN NUCLÉIDE SPÉCIFIQUE

Publication
EP 2625694 A4 20140423 (EN)

Application
EP 11831600 A 20111006

Priority
• US 39027210 P 20101006
• US 2011055115 W 20111006

Abstract (en)
[origin: US2012088949A1] A method of processing ion exchange resin radioactive waste, wherein the radioactive waste contains a plurality of fractions of radioactive waste based on density, which may include cation resin waste and anion resin waste, wherein at least one of the plurality of fractions comprises a total concentration of at least one radionuclide, including performing at least one of the following operations (i), (ii) or (iii): (i) separating the at least one of the plurality of fractions from the radioactive waste utilizing a moving freeboard; (ii) separating the radioactive waste into cation resin waste and anion resin waste; or (iii) removing at least a portion of the total concentration of the at least one radionuclide from: the radioactive waste; the at least one of the plurality of fractions separated by the moving freeboard; or at least one of the radioactive waste, the cation resin waste or the anion resin waste.

IPC 8 full level
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CPC (source: EP US)
G21F 9/12 (2013.01 - EP US); **G21F 9/28** (2013.01 - EP US); **G21F 9/30** (2013.01 - EP US)

Citation (search report)
• [XY] US 4389253 A 19830621 - NISHIMURA SHIGEOKI [JP], et al
• [Y] US 4764338 A 19880816 - UCHIDA SHUNSUKE [JP], et al
• [Y] EP 0111839 A1 19840627 - HITACHI LTD [JP]
• [Y] US 2003178308 A1 20030925 - WOOD CHRISTOPHER JOHN [US], et al
• [Y] US 5207897 A 19930504 - BAIRD WILLIAM E [US], et al
• [X] JP 2006159013 A 20060622 - EBARA CORP
• See references of WO 2012048116A2

Designated contracting state (EPC)
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US 201113267603 A 20111006; EP 11831600 A 20111006; US 2011055115 W 20111006